

ABSTRACT OF THE DISCLOSURE

The present invention is directed to pressure relief devices and to corresponding pressure relief assemblies that have improved vacuum resistance, improved fragmentation resistance, and/or improved burst control while maintaining low mass. The pressure relief device includes a substantially flat flange section and a domed section. The domed section may include a transitional line that defines a change in the shape of the domed section. The pressure relief device may also include a bracket for securing or aligning a domed section to a flange section. The pressure relief device may further include a stress distribution feature that is disposed transversely to a line of weakness in the domed section. The pressure relief assembly may include a fastener having a wire that is configured to break and release the pressure relief device when subject to a predetermined tensile load.

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